

## Chandan Singh

### EDUCATION

**Minnesota State University**  
**Bachelor of Science in Computer Information Technology; Minor in Business Administration**

**Mankato, MN**  
**Expected Dec-2025**

### ACADEMIC PROJECT EXPERIENCE

**Financial Analyst – [\[GitHub\]](#)**

**Apr 2023 – Jun 2023**

**User Engagement Analysis for Restaurant | SQLite, SQL Alchemy, Python, NumPy, Pandas, Matplotlib, Seaborn,**

- Created an optimized SQLite database from Yelp's dataset, structuring 5M+ records to improve data access by 40%.
- Developed data preprocessing pipelines to clean and transform JSON files, enhancing query efficiency by 30%.
- Analyzed engagement patterns in Yelp reviews, check-ins, and tips, revealing key drivers of restaurant success.
- Mapped restaurant success scores geospatially, identifying top cities, peak hours for high engagement and business growth.

**Data Analyst – [\[GitHub\]](#)**

**Apr 2024 – Aug 2024**

**Payment Type Analysis for Taxi Revenue | Python, Pandas, Matplotlib, SciPy, Statsmodels**

- Analyzed 300K+ NYC taxi trips, identifying a 12% higher average fare for card payments versus cash.
- Performed t-tests confirming statistically significant differences in fare amounts by payment type, driving targeted revenue strategies.
- Uncovered customer payment preferences, with card transactions accounting for 67.5% of total fares, influencing recommendations.
- Suggested incentive-based strategies for card payments, projected to boost driver revenue by 15%.

**Business Analyst – [\[GitHub\]](#)**

**May 2023 – Aug 2023**

**Flight Occupancy Analysis for Revenue Improvement | SQL, Python, Seaborn, Matplotlib**

- Analyzed over 50,000 flight records using SQL and Python, identifying underperforming flights with occupancy rates below 60%, providing actionable insights for improvement.
- Conducted data cleaning across 8+ tables, eliminating 100% of null values to ensure data integrity and accuracy in analysis.
- Created over 10 visualizations with Seaborn and Matplotlib, revealing occupancy patterns across routes, times, and ticket classes, increasing data interpretability by 30%.
- Proposed data-driven strategies to improve occupancy rates, projecting a potential revenue increase of up to 15% by optimizing low-occupancy flights.

**Data Analyst – [\[GitHub\]](#)**

**Dec 2023 – Jan 2024**

**HR Data Analysis and Dashboard for Workforce Insights | Power BI, Python, Pandas**

- Developed a comprehensive HR dashboard in Power BI, providing a 360-degree view of employee performance, engagement, and turnover trends.
- Analyzed key HR metrics (e.g., satisfaction scores, absenteeism, project involvement) for 300+ employees, identifying top factors influencing performance.
- Utilized Python to preprocess and transform raw HR data, enhancing data quality and reducing manual data cleaning time by 25%.
- Enhanced decision-making for HR managers by visualizing engagement and retention metrics, improving retention strategies by 15%.

### PROFESSIONAL EXPERIENCE

**Minnesota State University, Mankato – Information Technology Solutions**

**Mankato, MN**  
**Jan 2023-Present**

**Technology Consultant**

- Staged approximately 20 desktops daily by installing over 38 licensed software images for on-campus use.
- Implemented a desktop setup procedure, utilized by 6 student consultants to assist around 8 faculty and staff daily.
- Documented and maintained 28 troubleshooting procedures, linking processes to submitted support tickets for improved resolution tracking.

### Skills & CERTIFICATIONS

Python (Pandas, NumPy, Seaborn, Matplotlib, SciPy), SQL, SQLite, Power BI, Tableau, Excel, Java, JavaScript, C#, HTML, CSS

**Software:** Jupyter Notebook, Visual Studio, PyCharm, Azure DevOps, Microsoft Office, PowerShell, GitHub, Eclipse, Code: Blocks, Premiere, Dreamweaver, Illustrator, Blender

### EXTRACURRICULARS

**Minnesota State University, Mankato -MavPASS Leader**

**Aug 2022 – Dec 2022**

- Facilitated peer-assisted study sessions and developed collaborative strategies to enhance student understanding and participation.
- Guided discussions and conducted review sessions to improve academic performance through active learning techniques.

### HONORS & AWARD

**Dean's List — Minnesota State University, Mankato**

**Aug 2023**

**Paul A. Lindfors Sustainability Scholarship — Minnesota State University, Mankato**

**Dec 2023**

Awarded \$2,000 for demonstrating a commitment to sustainability and environmental initiatives.